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Axial setting device

Abstract

The invention relates to an axial setting device for actuating a multi-plate coupling in the driveline of a motor vehicle; it comprises a housing 4 with a longitudinal axis A and a ball ramp assembly 1 with a supporting disc 17 axially and radially supported in the housing 4, as well as an axially movable setting disc 16. The supporting disc 17 is rotationally secured in the housing 4 and comprises first ball grooves 24 with a circumferentially variable depth in a first side face 23. The setting disc 16 is rotatingly drivable and comprises second ball grooves 26 with a circumferentially variable depth in a second side face 25 which is arranged opposite the first side face 23. The ball grooves 24, 26 form pairs with pitches being inclined in opposite directions and jointly accommodate a ball 27. The setting disc 16, on one side, is axially supported against the multi-plate coupling 2 and, on the other side, is axially and radially supported by the balls 27 held in the ball grooves 24, 26.

Figure 1